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<u>Claims</u>

- 1. Pharmacologically compatible metal salts of pyridin-2-yimethylsulphinyl-1H-benzimidazoles with H⁺/K⁺-ATPase-inhibitory activity, in which at least one positive charge equivalent of the metal ion is counterbalanced by a hydroxyl ion, and hydrates thereof.
- 2. Pharmacologically compatible metal salts according to claim 1, in which the pyridin-2-ylmethyl-sulphinyl-1H-benzimidazoles with H⁺/K⁺-ATPase-inhibitory activity is selected from the group of pantoprazole, omeprazole, lansoprazole, rabeprazole and tenatoprazole, (R)- and (S)-pantoprazole, (R)- and (S)-meprazole, (R)- and (S)-lansoprazole, (R)- and (S)-rabeprazole and (R)- and (S)-tenatoprazole, and hydrates thereof.
- 3. Pharmacologically compatible metal salts according to claim 1, characterized by the general formula 1

 $[Me]_X[PPI]_Y[OH]_Z$ (1)

in which

Me is a pharmacologically acceptable two-valued metal ion.

PPI is a compound selected from pantoprazole, omeprazole, lansoprazole, rabeprazole and tenatoprazole and their enantiomers.

OH is a hydroxyl ion,

X is a positive, whole number from 1 to 3,

Y is a positive, whole number from 1 to 5 and

Z is a positive, whole number from 1 to 5.

whereby the equation (Y + Z) = 2X applies, and hydrates thereof.

Pharmacologically compatible metal salts according to claim 1, characterized by the general formula 1 of claim 3, in which

Me is a pharmacologically acceptable two-valued metal ion selected from magnesium, calcium and zinc,

PPI is a compound selected from pantoprazole, omeprazole, lansoprazole, rabeprazole and tenatoprazole and their enantiomers,

OH is a hydroxyl ion,

X is the number 1 or 2.

Y is a positive, whole number from 1 to 3 and

Z is a positive, whole number from 1 to 3,

whereby the equation (Y + Z) = 2X applies, and hydrates thereof.

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5. Pharmacologically compatible metal salts according to claim 1, characterized by the general formula 1 of claim 3, in which

Me is magnesium,

PPI is a compound selected from pantoprazole, (R)-pantoprazole and (S)-pantoprazole,

OH is a hydroxyl ion,

X is the number 1 or 2,

Y is the number 1 or 3 and

Z is the number 1 or 3,

whereby the equation (Y + Z) = 2X applies, and hydrates thereof.

6. Pharmacologically compatible metal salts according to claim 1, characterized by the general formula 1 of claim 3, in which

Me is magnesium,

PPI is (S)-pantoprazole,

OH is a hydroxyl ion,

X is the number 1 or 2,

Y is the number 1 or 3 and

Z is the number 1 or 3,

whereby the equation (Y + Z) = 2X applies, and hydrates thereof.

- 7. Pharmacologically compatible metal salt according to claim 1, which is Mg[Pantoprazole]OH, and hydrates thereof.
- 8. Pharmacologically compatible metal salt according to claim 1, which is Mg[(S)-Pantoprazole]OH, and hydrates thereof.
- 9. Pharmacologically compatible metal salt according to claim 1, which is Mg₂[Pantoprazole]₃OH, and hydrates thereof.
- 10. Pharmacologically compatible metal salt according to claim 1, which is Mg₂[(S)-Pantoprazole]₃OH, and hydrates thereof.
- 11. Medicament, comprising a compound according to any of claims 1 to 10 together with customary auxillaries.
- 12. Use of a compound according to any of claims 1 to 10 for treating gastrointestinal disorders.